

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION FACT SHEET

(pursuant to NAC 445A.236)

**Permittee Name:** Maryland Villas LLC  
818 W. Brooks Avenue  
Las Vegas, NV 89030

**Permit Number:** NV0023043

**Location:** Maryland Villas Apartment Complex  
Northeast Corner of Maryland Parkway and Wilson Avenue  
Las Vegas, Clark County, NV 89101

Latitude: 36° 10' 30"N,  
Longitude: 115° 07' 45"W  
Township 20S, Range 61E, Section 26

## **General:**

Maryland Villas is an apartment complex housing development in Las Vegas, Clark County, Nevada. The site is approximately 5 acres in size. From the western edge of the property (bound by Maryland Parkway), the site slopes to the east. The elevation drop from west to east is 60 feet. During initial grading and foundation work, near surface groundwater was encountered. A series of dewatering trenches (French drains containing perforated pipes) were installed to convey water from the site. The trenches drain to a catchment basin, 6 feet in diameter and 8 feet deep, located below grade. Water is pumped from the catchment basin, and is discharged via a sub-grade pipeline to the Clark County stormdrain system. The water is discharged to the Upper Las Vegas Wash via the stormdrain system.

## **Discharge Flow and Characteristics**

During the term of the current permit, Maryland Villas discharges drained groundwater to the Clark County stormdrain system at an average rate of 26.8 gpm. Maximum discharge during this period was 31 gpm. The permit limits the discharge from the site to 0.072 MGD (50 gpm).

There have been no exceedences of current permit water quality limits during the permit term. Average water quality characteristics since January 2000 have been the following: Inorganic Nitrogen as N, 3.7 mg/l (limit 20 mg/l); Ammonia as N, 0.086 #/day (limit 1.0 #/day); pH, 7.4 (limit 6.5 to 9.0); Total Phosphorus, <0.01 #/day (limit 1.0 #/day); Total Dissolved Solids, 431.5 pounds/day (limit 2000 pounds/day). Samples were tested for Volatile Organic Compounds (VOC) and Total Petroleum Hydrocarbon (TPH). VOC and TPH were below detection limits in 3 of 4 samples. TPH was detected in one sample at a concentration of 1.9 mg/l. VOC was detected in one sample at a concentration of 8 parts per billion, or 0.008 mg/l.

**Receiving Water Characteristics:**

The dewatering system discharges into a Clark County stormdrain inlet, which eventually discharges to the Upper Las Vegas Wash. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199. The requirements to maintain existing higher quality waters apply.

**Proposed Effluent Limitations and Special Conditions:**

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD	0.072 (50 gpm)		Continuous	Flow Meter
Total Dissolved Solids (TDS), mg/l	Monitor & Report		Semi-Annually <sup>2</sup>	Discrete
Total Inorganic Nitrogen as N, mg/L	Monitor & Report		Semi-Annually <sup>2</sup>	Discrete
pH, S.U.	6.5 – 9.0		Semi-Annually <sup>2</sup>	Discrete
Total Petroleum Hydrocarbons (TPH), mg/L (Modified EPA method 8015) <sup>1</sup>	Monitor & Report		Semi-Annually <sup>2</sup>	Discrete
Volatile Organic Compounds (VOC and MTBE <sup>4</sup> ), µg/L (Method 624)	Monitor & Report		Annually <sup>3</sup>	Discrete

1. Report diesel and gasoline range fractions.
2. Semi-Annual sampling will be performed in the second and fourth quarters, and results will be submitted with the second and fourth quarter DMRs.
3. Annual sampling results will be submitted with the fourth quarter DMR.
4. MTBE has been added as a new analyte for the permit renewal.

**Rationale for Permit Requirements:**

The monitoring requirements for the site are consistent with the requirements for maintaining higher water quality, as stated in NAC445A.199. Monitoring has shown that the groundwater collected from the facility has not contained significant amounts of phosphorus or ammonia; these parameters have been eliminated from the renewed permit. Further, no analytical parameters have been exceeded during the term of the current permit. The Permittee is required to continue monitoring discharge on an annual and semi-annual basis to ensure that the receiving water (Upper Las Vegas Wash) is not degraded from dewatering at the Maryland Villas site.

**Schedule of Compliance:**

1. The Permittee shall achieve compliance with the NPDES permit on issuance.
2. Within fourteen (14) days of the permit issuance date, the Permittee shall submit for review a copy of the Operations & Maintenance (O&M) Manual for the Maryland Villas dewatering system, prepared in accordance with the Division's WTS-2 guidance: *Minimum Information Required for an Operations and Maintenance Manual*. The manual shall describe the Best Management Procedures (BMPs), which have been employed at the site to minimize the introduction of contaminants/pollutants into the stormdrain. This document shall be wet stamped and signed by a Nevada Professional Engineer (P.E.).

**Procedures for Public Comment:**

The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge into the stormdrain for a five-year period, subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** for publication. The Notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **December 1, 2004 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination:**

The Division has made the tentative determination to renew the proposed NPDES discharge permit for a period of five (5) years

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